

Lesson Notes

13.4

NAME _____

Module 13 Perimeter, Area, and Volume

Lesson 4 Surface Area: Prisms, Cylinders, and Spheres

Lesson Objectives

- Derive and use formulas for surface area of prisms, cylinders, and spheres.
- Use square units to find the surface area of prisms, cylinders, and spheres.

Subtopic 1 Surface Area of a Prism

Surface Area (SA) of Any Solid

Equals the total area of its _____

Measured in _____

Surface Area of a Rectangular Prism

$SA =$ _____

Surface Area of a Triangular Prism

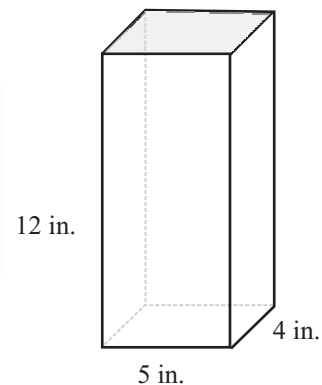
$SA =$ _____

“ B ” refers to _____ of triangular prism.

“ L ” refers to _____ area.

Lateral area is the _____ of the areas of the lateral _____ of a triangular prism.

- 1** Find the surface area of the rectangular prism.

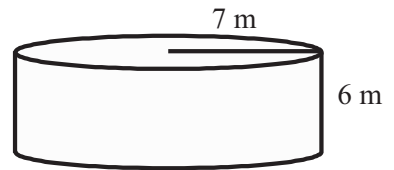


Subtopic 2 **Surface Area of a Cylinder**

Surface Area of a Cylinder

$$SA = 2\pi r^2 + \underline{\hspace{2cm}}$$

- 2** Find the surface area of the cylinder.



Subtopic 3 **Surface Area of a Sphere**

Surface Area of a Sphere

$$SA = \underline{\hspace{2cm}}$$

- 3** Find the surface area of the sphere.

